

**Preliminary Draft List of San Joaquin River Region Species Currently Proposed
to Be Included in the Conservation Strategy**
June 3, 1998

Preliminary Criteria for Inclusion on this List

This is a list of special-status species in the Ecosystem Restoration Program Ecological Zones that are within the San Joaquin River Region. The San Joaquin River Region includes the East-side Delta Tributaries, San Joaquin River, East San Joaquin Basin, and West San Joaquin Basin Ecological Zones. The list was developed using the criteria described below. Species coded "NI" in the "Decision Criteria" column are those special-status species that do not meet the preliminary criteria for inclusion and would most likely not be addressed in the Conservation Strategy.

Special-Status Species

Special-status species are any species with some form of endangerment or concern status. Special-status species are species that are:

- federally listed as threatened or endangered under the Endangered Species Act (ESA),
- California listed as threatened or endangered under the California Endangered Species Act (CESA),
- proposed for federal listing under the ESA,
- California candidates under the CESA,
- federal candidates under the ESA,
- California fully protected species or specified birds,
- California species of special concern (CSC),
- California Native Plant Society (CNPS) List 1A, List 1B, List 2, or List 3, or
- other species of concern to CALFED.

The list includes all special-status species known to occur or with the potential to occur in the San Joaquin River Region. The determination that a species has the potential to occur was based on the species' known range and the presence of suitable habitat in the San Joaquin River Region.

Species Addressed by the Conservation Strategy

Criteria for selection of species to potentially be covered in the Conservation Strategy are:

- the species is federally or California listed as rare, threatened, or endangered, or
- the species is a California fully protected species, or
- the species could become federally or California listed as threatened or endangered during the term of CALFED implementation, and
- the species could be affected by CALFED actions.

Species considered to have the potential to become federally or California listed as threatened or endangered during the term of CALFED implementation are those species that are:

- proposed for federal listing,
- California candidates,
- federal candidates,
- California species of special concern (each species considered individually for inclusion - see decision criteria),
- specified birds (each species considered individually for inclusion - see decision criteria),
- CNPS List 1 and List 2 (each species considered individually for inclusion - see decision criteria), or
- Other species of concern (each species considered individually for inclusion - see decision criteria).

CSC, Specified Birds, CNPS Lists 1-3, and Other Species of Concern are included if CALFED actions could affect a substantial portion of the species range or important habitat or if the species is rare or its distribution is limited.

1 Type	2 Common Name	Scientific Name	3 Status			4 Potential Effects on Species in the San Joaquin River Region				5 Decision Criteria
			Federal	State	Other	May Be Affected	Not Likely to be Affected	Not Enough Information on the Species		
Federally Listed as Endangered or Threatened										
P	Colusa grass	<i>Neostapfia colusana</i>	T	CE	1B	X				L
P	Contra Costa goldfields	<i>Lasthenia conjugens</i>	E	-	1B	X				L
P	El Dorado bedstraw	<i>Galium californicum ssp. sierrae</i>	E	R	1B		X2			L

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Type ¹	Common Name ²	Scientific Name	Status ³			Potential Effects on Species ⁴ in the San Joaquin River Region			
			Federal	State	Other	May Be Affected	Not Likely to be Affected	Not Enough Information on the Species	Decision ⁵ Criteria
P	Greene's tuctoria	<i>Tuctoria greenei</i>	E	R	1B	X			L
P	Hairy orcutt grass	<i>Orcuttia pilosa</i>	E	CE	1B	X			L
P	Hartweg's golden sunburst	<i>Pseudobahia bahiifolia</i>	E	CE	1B	X			L
P	Hoover's eriastrum	<i>Eriastrum hooveri</i>	T	-	-	X			L
P	Hoover's spurge	<i>Chamaesyce hooveri</i>	T	-	1B	X			L
P	Large-flowered fiddleneck	<i>Amsinckia grandiflora</i>	E	CE	1B	X			L
P	Large-flowered fiddleneck critical habitat	<i>Amsinckia grandiflora critical habitat</i>							
P	Layne's ragwort	<i>Senecio layneae</i>	T	R	1B	X			L
P	Palmate-bracted bird's-beak	<i>Cordylanthus palmatus</i>	E	CE	1B	X			L
P	Pine Hill ceanothus	<i>Ceanothus roderickii</i>	E	R	1B		X2		L
P	Pine Hill flannelbush	<i>Fremontodendron decumbens</i>	E	R	1B		X2		L
P	Sacramento orcutt grass	<i>Orcuttia viscida</i>	E	CE	1B	X			L
P	San Benito evening-primrose	<i>Camissonia benitensis</i>	T	-	1B		X2		L
P	San Joaquin adobe sunburst	<i>Pseudobahia peirsonii</i>	T	CE	1B		X2		L
P	San Joaquin Valley orcutt grass	<i>Orcuttia inaequalis</i>	T	CE	1B	X			L
P	San Joaquin woollythreads	<i>Lembertia congdonii</i>	E	-	1B	X			L
P	Slender orcutt grass	<i>Orcuttia tenuis</i>	T	CE	1B	X			L
P	Stebbins' morning-glory	<i>Calystegia stebbinsii</i>	E	CE	1B		X2		L
P	Succulent owl's-clover	<i>Castilleja campestris ssp. succulenta</i>	T	CE	1B	X			L
P	Wyethia reticulata clover	<i>Trifolium amoenum</i>	E	-	1B	X			L
P	Conservancy fairy shrimp	<i>Branchinecta conservatio</i>	E	-	-	X			L
I	Longhorn fairy shrimp	<i>Branchinecta longiantenna</i>	E	-	-		X		L
I	Vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	T	-	-	X			L
I	Vernal pool tadpole shrimp	<i>Lepidurus packardii</i>	E	-	-	X			L
I	Valley elderberry longhorn beetle	<i>Desmocerus californicus dimorphus</i>	T	-	-	X			L
F	Central Valley steelhead Evolutionarily Significant Unit (ESU) (R)	<i>Oncorhynchus mykiss (cv)</i>	T	-	-	X			L
A	Limestone salamander	<i>Hydromantes brunus</i>	T	-	-		X2		L
A	California red-legged frog	<i>Rana aurora draytonii</i>	T	CSC	-	X			L

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R	Blunt-nosed leopard lizard	<i>Gambelia silus</i>	E	CE/FP	-	X		L	
R	Alameda whipsnake	<i>Masticophis lateralis euryxanthus</i>	T	CT	-	X		L	
R	Giant garter snake	<i>Thamnophis gigas</i>	T	CT	-	X		L	
B	Aleutian Canada goose	<i>Branta canadensis leucopareia</i>	T	-	-	X		L	
B	California condor	<i>Gymnogyps californianus</i>	E	CE	-		X1	L	
B	Bald eagle	<i>Haliaeetus leucocephalus</i>	T/PR	CE/FP	-	X		L	
B	American peregrine falcon	<i>Falco peregrinus anatum</i>	E	CE/FP	-	X		L	
B	Least Bell's vireo	<i>Vireo bellii pusillus</i>	E	E	-	X		L	
M	Giant kangaroo rat	<i>Dipodomys ingens</i>	E	CE	-		X2	L	
M	San Joaquin kit fox	<i>Vulpes macrotis mutica</i>	E	CT	-	X		L	
California Listed as Endangered, Threatened, Rare, or Fully Protected									
P	Boggs Lake hedge-hyssop	<i>Gratiola heterosepala</i>	-	CE	1B	X		L	
P	Delta coyote-thistle	<i>Eryngium racemosum</i>	-	CE	1B/SC	X		L	
P	Mason's lilaeopsis	<i>Lilaeopsis masonii</i>	-	R	1B/SC	X		L	
P	Mt. Diablo bird's-beak	<i>Cordylanthus nidularius</i>	-	R	1B/SC		X2	L	
P	Rock sanicle	<i>Sanicula saxatilis</i>	-	R	1B/SC	X		L	
B	Golden eagle	<i>Aquila chrysaetos</i>	PR	CSC/FP	-		X1	L	
B	Swainson's hawk	<i>Buteo swainsoni</i>	-	CT	SC	X		L	
B	White-tailed kite	<i>Elanus leucurus</i>	-	FP	-	X		L	
B	California black rail	<i>Laterallus jamaicensis coturniculus</i>	-	CT/FP	SC	X		L	
B	Greater sandHill crane	<i>Grus canadensis tabida</i>	-	CT/FP	-	X		L	
B	Western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i>	-	CE	-	X		L	
B	Bank swallow	<i>Riparia riparia</i>	-	CT	-	X		L	
B	Little willow flycatcher	<i>Empidonax traillii brewsteri</i>	-	CE	SC	X		L	
M	Nelson's antelope ground squirrel	<i>Ammospermophilus nelsoni</i>	-	CT	SC	X		L	
M	Ringtail	<i>Bassariscus astutus</i>	-	FP	-	X		L	
Federally Proposed									
P	Ione manzanita	<i>Arctostaphylos myrtifolia</i>	PT	-	1B		X2	P	
P	Rawhide Hill onion	<i>Allium tuolumnense</i>	PT	-	1B	X		P	

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F	Sacramento splittail	<i>Pogonichthys macrolepidotus</i>	PT	CSC	-	X			P
M	San Joaquin Valley woodrat	<i>Neotoma fuscipes riparia</i>	PE	CSC	-	X			P
Federal Candidate									
A	California tiger salamander	<i>Ambystoma californiense</i>	C	-	-	X			P
B	Mountain plover	<i>Charadrius montanus</i>	C	CSC	-		X1		P
California Species of Special Concern, or CNPS List 1 or 2									
P	Ahart's dwarf rush	<i>Juncus leiospermus var. ahartii</i>	-	-	1B/SC	X			B
P	Alkali milkvetch	<i>Astragalus tener var. tener</i>	-	-	1B/SC	X			A
P	Arburua Ranch jewelflower	<i>Streptanthus insignis ssp. lyonii</i>	-	-	1B/SC	X			B
P	Beaked clarkia	<i>Clarkia rostrata</i>	-	-	1B/SC	X			NI
P	Ben Lomond buckwheat	<i>Eriogonum nudum var. decurrens</i>	-	-	1B	X			B
P	Big tarplant	<i>Blepharizonia plumosa ssp. plumosa</i>	-	-	1B	X			B
P	Big-scale balsamroot	<i>Balsamorhiza macrolepis var. macrolepis</i>	-	-	1B	X			NI
P	Brewer's western flax	<i>Hesperolinon breweri</i>	-	-	1B/SC	X			NI
P	Bristly sedge	<i>Carex comosa</i>	-	-	2			X	NI
P	Brittlescale	<i>Atriplex depressa</i>	-	-	1B/SC	X			A
P	Caper-fruited tropidocarpum	<i>Tropidocarpum capparideum</i>	-	-	1A/SC		X2		NI
P	Congdon's lomatium	<i>Lomatium congdonii</i>	-	-	1B/SC	X			B
P	Congdon's tarplant	<i>Hemizonia parryi ssp. congdonii</i>	-	-	1B/SC	X			A
P	Contra Costa manzanita	<i>Arctostaphylos manzanita ssp. laevigata</i>	-	-	1B	X			B
P	Delta mudwort	<i>Limosella subulata</i>	-	-	2	X			A
P	Delta tule pea	<i>Lathyrus jepsonii var. jepsonii</i>	-	-	1B/SC	X			A
P	Diablo helianthella	<i>Helianthella castanea</i>	-	-	1B/SC	X			B
P	Diamond-petaled California poppy	<i>Eschscholzia rhombipetala</i>	-	-	1B/SC	X			B
P	Dwarf downingia	<i>Downingia pusilla</i>	-	-	2	X			NI
P	El Dorado County mule ears	<i>Wyethia reticulata</i>	-	-	1B/SC		X2		NI
P	Ferris' milkvetch	<i>Astragalus tener var. ferrisiae</i>	-	-	1B/SC	X			A
P	Four-angled spikerush	<i>Eleocharis quadrangulata</i>	-	-	2	X			A
P	Fragrant fritillary	<i>Fritillaria liliacea</i>	-	-	1B/SC	X			NI

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P	Hairless popcornflower	<i>Plagiobothrys glaber</i>	-	-	1A		X2	NI	
P	Hall's bush mallow	<i>Malacothamnus hallii</i>	-	-	1B	X		NI	
P	Heartscale	<i>Atriplex cordulata</i>	-	-	1B/SC	X		NI	
P	Hispid bird's-beak	<i>Cordylanthus mollis ssp. hispidus</i>	-	-	1B/SC	X		A	
P	Hooked popcornflower	<i>Plagiobothrys uncinatus</i>	-	-	1B/SC	X		NI	
P	Hoover's calycadenia	<i>Calycadenia hooveri</i>	-	-	1B/SC	X		NI	
P	Hospital Canyon larkspur	<i>Delphinium californicum ssp. interius</i>	-	-	1B/SC	X		NI	
P	Indian Valley bush mallow	<i>Malacothamnus aboriginum</i>	-	-	1B		X2	NI	
P	Legenere	<i>Legenere limosa</i>	-	-	1B/SC	X		B	
P	Lesser saltscale	<i>Atriplex minuscula</i>	-	-	1B/SC	X		A	
P	Lost Hills crownscale	<i>Atriplex vallicola</i>	-	-	1B/SC	X		A	
P	Mad-dog skullcap	<i>Scutellaria lateriflora</i>	-	-	2	X		A	
P	Madera linanthus	<i>Linanthus serrulatus</i>	-	-	1B	X		NI	
P	Mariposa clarkia	<i>Clarkia biloba ssp. australis</i>	-	-	1B	X		B	
P	Meadow sedge	<i>Carex praticola</i>	-	-	2	X		NI	
P	Merced monardella	<i>Monardella leucocephala</i>	-	-	1A/SC		X2	NI	
P	Merced phacelia	<i>Phacelia ciliata var. opaca</i>	-	-	1B/SC	X		B	
P	Most beautiful jewelflower	<i>Streptanthus albidus ssp. peramoenus</i>	-	-	1B/SC	X		NI	
P	Mt. Diablo buckwheat	<i>Eriogonum truncatum</i>	-	-	1A		X2	NI	
P	Mt. Diablo fairy-lantern	<i>Calochortus pulchellus</i>	-	-	1B	X		NI	
P	Mt. Diablo jewelflower	<i>Streptanthus hispidus</i>	-	-	1B/SC	X		B	
P	Mt. Diablo manzanita	<i>Arctostaphylos auriculata</i>	-	-	1B	X		B	
P	Mt. Diablo phacelia	<i>Phacelia phacelioides</i>	-	-	1B/SC	X		NI	
P	Mt. Hamilton coreopsis	<i>Coreopsis hamiltonii</i>	-	-	1B/SC	X		B	
P	Mt. Hamilton jewelflower	<i>Streptanthus callistus</i>	-	-	1B/SC	X		B	
P	Mt. Hamilton thistle	<i>Cirsium fontinale var. campylon</i>	-	-	1B/SC	X		NI	
P	Munz's tidy-tips	<i>Layia munzii</i>	-	-	1B	X		NI	
P	Napa western flax	<i>Hesperolinon serpentinum</i>	-	-	1B	X		B	
P	Nissenan manzanita	<i>Arctostaphylos nissenana</i>	-	-	1B/SC		X2	NI	
P	Nuttall's pondweed	<i>Potamogeton epiphydrus ssp. nuttallii</i>	-	-	2		X2	NI	

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P	Pale-yellow layia	<i>Layia heterotricha</i>	-	-	1B		X2	NI	
P	Panoche pepper-grass	<i>Lepidium jaredii ssp. album</i>	-	-	1B/SC	X		A	
P	Parry's horkelia	<i>Horkelia parryi</i>	-	-	1B/SC	X		NI	
P	Pincushion navarretia	<i>Navarretia myersii</i>	-	-	1B	X		B	
P	Pleasant Valley mariposa lily	<i>Calochortus clavatus var. avius</i>	-	-	1B/SC		X2	NI	
P	Prairie wedge grass	<i>Sphenopholis obtusata</i>	-	-	2		X2	NI	
P	Rayless layia	<i>Layia discoidea</i>	-	-	1B		X2	NI	
P	Rayless ragwort	<i>Senecio aphanactis</i>	-	-	2	X		NI	
P	Recurved larkspur	<i>Delphinium recurvatum</i>	-	-	1B/SC	X		NI	
P	Red Hills ragwort	<i>Senecio clevelandii var. heterophyllus</i>	-	-	1B	X		B	
P	Red Hills soaproot	<i>Chlorogalum grandiflorum</i>	-	-	1B/SC	X		NI	
P	Red-flowered lotus	<i>Lotus rubriflorus</i>	-	-	1B/SC	X		B	
P	Rose-mallow	<i>Hibiscus lasiocarpus</i>	-	-	2	X		A	
P	San Benito spineflower	<i>Chorizanthe biloba var. immemora</i>	-	-	1B		X2	NI	
P	San Joaquin spearscale	<i>Atriplex joaquiniana</i>	-	-	1B/SC	X		A	
P	Sanford's arrowhead	<i>Sagittaria sanfordii</i>	-	-	1B/SC	X		A	
P	Santa Clara red ribbons	<i>Clarkia concinna ssp. automixa</i>	-	-	1B/SC	X		NI	
P	Saw-toothed lewisia	<i>Lewisia serrata</i>	-	-	1B/SC	X		B	
P	Shaggyhair lupine	<i>Lupinus spectabilis</i>	-	-	1B/SC	X		B	
P	Sharsmith's harebell	<i>Campanula sharsmithiae</i>	-	-	1B/SC	X		B	
P	Sharsmith's onion	<i>Allium sharsmithae</i>	-	-	1B/SC	X		NI	
P	Shining navarretia	<i>Navarretia nigelliformis ssp. radians</i>	-	-	1B	X		NI	
P	Showy madia	<i>Madia radiata</i>	-	-	1B	X		NI	
P	Slender-leaved pondweed	<i>Potamogeton filiformis</i>	-	-	2	X		NI	
P	Slough thistle	<i>Cirsium crassicaule</i>	-	-	1B/SC	X		A	
P	Small's southern clarkia	<i>Clarkia australis</i>	-	-	1B		X2	NI	
P	Spiny-sepaled button-celery	<i>Eryngium spinosepalum</i>	-	-	1B/SC	X		A	
P	Stebbins' phacelia	<i>Phacelia stebbinsii</i>	-	-	1B/SC		X2	NI	
P	Suisun Marsh aster	<i>Aster lentus</i>	-	-	1B/SC	X		A	
P	Talus fritillary	<i>Fritillaria falcata</i>	-	-	1B/SC	X		NI	

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P	Tuolumne fawn lily	<i>Erythronium tuolumnense</i>	-	-	1B		X2	NI	
P	Veiny monardella	<i>Monardella douglasii ssp. venosa</i>	-	-	1B/SC	X		B	
P	Western leatherwood	<i>Dirca occidentalis</i>	-	-	1B	X		NI	
P	Woolly violet	<i>Viola tomentosa</i>	-	-	1B		X2	NI	
P	Wright's trichocoronis	<i>Trichocoronis wrightii var. wrightii</i>	-	-	2	X		NI	
F	River lamprey	<i>Lampetra ayresi</i>	-	CSC	-			X	NI
	Hardhead	<i>Mylopharodon conocephalus</i>	-	CSC	-	X			B
	Western spadefoot	<i>Scaphiopus hammondi</i>	-	CSC	SC	X			A
A	FootHill yellow-legged frog	<i>Rana boylei</i>	-	CSC	SC	X			A
R	Western pond turtle	<i>Clemmys marmorata</i>	-	CSC	SC	X			A
R	California horned lizard	<i>Phrynosoma coronatum frontale</i>	-	CSC	SC	X			NI
R	Silvery legless lizard	<i>Anniella pulchra pulchra</i>	-	CSC	SC		X2		NI
R	San Joaquin whipsnake	<i>Masticophis flagellum ruddocki</i>	-	CSC	SC	X			B
B	White-faced ibis	<i>Plegadis chihi</i>	-	CSC	SC	X			A
B	Cooper's hawk	<i>Accipiter cooperii</i>	-	CSC	-	X			A
B	Ferruginous hawk	<i>Buteo regalis</i>	-	CSC	SC		X1		NI
B	Northern harrier	<i>Circus cyaneus</i>	-	CSC	-	X			A
B	Osprey	<i>Pandion haliaetus</i>	-	CSC/SB	-		X1		A
B	Sharp-shinned hawk	<i>Accipiter striatus</i>	-	CSC	-		X1		NI
B	Merlin	<i>Falco columbarius</i>	-	CSC	-		X1		NI
B	Prairie falcon	<i>Falco mexicanus</i>	-	CSC	-		X1		NI
B	Long-billed curlew	<i>Numenius americanus</i>	-	CSC	-	X			A
B	Black tern	<i>Chlidonias niger</i>	-	CSC	SC	X			B
B	California gull	<i>Larus californicus</i>	-	CSC	-	X			B
B	California spotted owl	<i>Strix occidentalis occidentalis</i>	-	CSC	SC		X2		NI
B	Long-Eared owl	<i>Asio otus</i>	-	CSC	-	X			B
B	Short-Eared owl	<i>Asio flammeus</i>	-	CSC	-	X			B
B	Western burrowing owl	<i>Athene cunicularia hypugea</i>	-	CSC	SC	X			A
B	Loggerhead shrike	<i>Lanius ludovicianus</i>	-	CSC	-	X			NI
B	Bell's sage sparrow	<i>Amphispiza belli belli</i>	-	CSC	SC		X2		NI

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B	California yellow warbler	<i>Dendroica petechia brewsteri</i>	-	CSC	-	X			A
B	Grasshopper sparrow	<i>Ammodramus savannarum</i>	-	CSC	-	X			B
B	Yellow-breasted chat	<i>Icteria virens</i>	-	CSC	-	X			A
M	Greater western mastiff-bat	<i>Eumops perotis californicus</i>	-	CSC	SC	X			NI
M	Pale Townsend's big-eared bat	<i>Plecotus townsendii pallescens</i>	-	CSC	SC	X			NI
M	Pallid bat	<i>Antrozous pallidus</i>	-	CSC	-		X1		NI
	Spotted bat	<i>Euderma maculatum</i>	-	CSC	SC		X2		NI
	Short-nosed kangaroo rat	<i>Dipodomys nitratooides brevinasus</i>	-	CSC	SC		X2		NI
M	Pacific fisher	<i>Martes pennanti pacifica</i>	-	CSC	SC		X2		NI
M	American badger	<i>Taxidea taxus</i>	-	CSC	-	X			NI
Other Species of Concern or CNPS List 3									
P	Bisbee Peak rush-rose	<i>Helianthemum suffrutescens</i>	-	-	3		X2		NI
P	Clustered lady's-slipper	<i>Cypripedium fasciculatum</i>	-	-	SC		X2		NI
P	Forked fiddleneck	<i>Amsinckia vernicosa var. furcata</i>	-	-	SC		X2		NI
P	Henderson's bent grass	<i>Agrostis hendersonii</i>	-	-	3/SC	X			A
P	Little mouse-tail	<i>Myosurus minimus ssp. apus</i>	-	-	3/SC	X			NI
P	San Antonio Hills monardella	<i>Monardella antonina ssp. antonina</i>	-	-	3	X			A
P	Santa Cruz Mtns. Pussypaws	<i>Calyptridium parryi var. hesseae</i>	-	-	3		X2		NI
I	Bridges' Coast Range shoulderband snail	<i>Helminthoglypta nickliniana bridgesi</i>	-	-	SC		X2		NI
	Merced Canyon shoulderband snail	<i>Helminthoglypta allynsmithi</i>	-	-	SC	X			NI
	Ciervo aegialian scarab beetle	<i>Aegialia concinna</i>	-	-	SC	X			NI
I	Moestan blister beetle	<i>Lytta moesta</i>	-	-	SC	X			NI
I	Molestan blister beetle	<i>Lytta molesta</i>	-	-	SC	X			NI
I	Ricksecker's water scavenger beetle	<i>Hydrochara rickseckeri</i>	-	-	SC	X			NI
I	Sacramento anthicid beetle	<i>Anthicus sacramento</i>	-	-	SC	X			NI
I	Sacramento Valley tiger beetle	<i>Cicindela hirticollis abrupta</i>	-	-	SC	X			NI
I	San Joaquin dune beetle	<i>Coelus gracilis</i>	-	-	SC	X			NI
I	San Joaquin tiger beetle	<i>Cicindela tranquebarica ssp</i>	-	-	SC	X			NI
I	Bohart's blue butterfly	<i>Philotiella speciosa bohartorum</i>	-	-	SC	X			NI

Type ¹	Common Name ²	Scientific Name	Status ³			Potential Effects on Species ⁴ in the San Joaquin River Region			Decision ⁵ Criteria
			Federal	State	Other	May Be Affected	Not Likely to be Affected	Not Enough Information on the Species	
I	Opler's longhorn moth	<i>Adela oplerella</i>	-	-	SC	X			NI
F	Pacific lamprey	<i>Lampetra tridentata</i>	-	-	SC			X	NI
B	Black-crowned night heron (rookery)	<i>Nycticorax nycticorax</i>	-	-	SC	X			A
B	Great blue heron (rookery)	<i>Ardea herodias</i>	-	-	SC	X			A
B	Northern goshawk	<i>Accipiter gentilis</i>	-	-	SC		X1		NI
B	California horned lark	<i>Eremophila alpestris actia</i>	-	-	SC	X			NI
	Tricolored blackbird	<i>Agelaius tricolor</i>	-	-	SC	X			A
	Fringed myotis	<i>Myotis thysanodes</i>	-	-	SC	X			NI
M	Long-eared myotis	<i>Myotis evotis</i>	-	-	SC		X2		NI
M	Long-legged myotis	<i>Myotis volans</i>	-	-	SC		X1		NI
M	Small-footed myotis	<i>Myotis ciliolabrum</i>	-	-	SC		X2		NI
M	Yuma myotis	<i>Myotis yumanensis</i>	-	-	SC	X			NI
M	Berkeley kangaroo rat	<i>Dipodomys heermanni berkeleyensis</i>	-	-	SC		X2		NI
M	Merced kangaroo rat	<i>Dipodomys heermanni dixonii</i>	-	-	SC	X			NI
M	San Joaquin pocket mouse	<i>Perognathus inornatus</i>	-	-	SC	X			NI

Type ¹	Common Name ²	Scientific Name	Status ³			Potential Effects on Species ⁴ in the San Joaquin River Region			
			Federal	State	Other	May Be Affected	Not Likely to be Affected	Not Enough Information on the Species	Decision ⁵ Criteria

¹Notes:

Type: P = Plant, I = Invertebrate, F = Fish, A = Amphibian, R = Reptile, B = Bird, M = Mammal

² (R) = Species for which recovery is a CALFED objective.

³Status:

Federal

- E = Listed as endangered under ESA
- T = Listed as threatened under ESA
- PE = Proposed for listing as endangered under ESA
- PT = Proposed for listing as threatened under ESA
- C = Candidate for listing under ESA
- PR = Protected under the Bald and Golden Eagle Protection Act

State:

- CE = Listed as endangered under CESA
- CT = Listed as threatened under CESA
- CCE = Candidate for listing as endangered under CESA
- CCT = Candidate for listing as threatened under CESA
- R = Listed as rare under California Native Plant Protection Act
- CSC = California species of special concern
- FP = Fully protected under California Fish and Game Code
- SB = Specified birds under California Fish and Game Code

Other:

- 1A = California Native Plant Society List 1A
- 1B = California Native Plant Society List 1B
- 2 = California Native Plant Society List 2
- 3 = California Native Plant Society List 3
- SC = Other species of concern identified by CALFED

⁴Potential Effects:

Not Likely to be Affected:

- X1 = CALFED actions do not affect the species because habitat is not limiting and the species is mobile
- X2 = Species occurs in areas that would not be affected by CALFED actions

Not Enough Information on the Species:

X = Not enough information on the species' biology or distribution to make a determination on effects

May be Affected:

X = CALFED actions may result in take of federally or state protected species, species are associated with habitat types or occur at specific locations that may be adversely or beneficially affected by CALFED depending on where CALFED actions would be implemented, or species that are rare or transient in the Bay Region and may be affected by CALFED depending on when or where CALFED actions would be implemented.

Potential Effects on Species ⁴
in the San Joaquin River Region

Type ¹	Common Name ²	Scientific Name	Status ³			May Be Affected	Not Likely to be Affected	Not Enough Information on the Species	Decision ⁵ Criteria
			Federal	State	Other				

⁵ Decision Criteria:

- A = Included because CALFED actions could affect a substantial portion of the species' range or important habitat
- B = Included because of limited distribution or rarity of the species
- L = Included because species is federally or state listed as endangered, threatened, rare, or fully protected
- P = Included because of the potential to become federally or state listed
- NI = The species would most likely not be addressed in the Conservation Strategy